

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Chia-Hung Yeh et al.

Appl. No.: 10/710,470

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Examiner: Grant, Christopher C Art Unit: 2623
Docket No.: ALIP0045USA Confirmation No.: 4469

Title: METHOD AND RELATED CIRCUIT FOR DETECTING BLACK
 FRAMES IN VIDEO SIGNAL

To: Commissioner for Patents
 P.O. BOX 1450
 Alexandria, VA 22313-1450

Subject: Information disclosure statement under 37
 CFR §1.56

Dear Sir,

This is an Information Disclosure Statement in accordance with the duty to disclose information material to patentability under 37 CFR §1.56. Applicants wish to make of record the documents listed on the accompanying form PTO/SB/08.

Since this IDS is filed before the mailing date of the first Office action, consideration of the information disclosure statement is hereby requested according to 37 CFR §1.97(b). Each item of information contained in the information disclosure statement was first cited in an Office communication mailed on Mar. 9, 2007 for the counterpart Chinese patent application number 2004100074478.

According to the requirement set forth in 37 CFR §1.98(a)(2), applicants are submitting a copy of the cited Chinese pre-grant publication CN 1386282 (published Dec. 8, 2002). In accordance with MPEP 609.04(a) III, an English-language equivalent application may be submitted to fulfill the requirement for a concise explanation of relevance. Accordingly, the English-language equivalent US patent 7184649 of the Chinese pre-grant publication CN 1386282 is hereby presented to fulfill the 37 CFR 1.98(a)(3) requirement.

According to the requirement set forth in 37 CFR 1.98(a)(3) and MPEP 609.04(a) III, an English language abstract of the cited Japanese pre-grant publication JP 6-233112 is included herewith to fulfill the concise explanation requirement. The English language

abstract of the cited Japanese pre-grant publication JP 6-233112 downloaded from the European Patent Office website is as follows:

PURPOSE: To accurately obtain a black frame by eliminating the influence of stains or the like by correcting the white/black of a central picture element on a scanning line with the matrix of peripheral picture elements. CONSTITUTION: The scanning lines for black frame detection at fixed intervals are inputted to a first binarizing means 56, and the other scanning lines are inputted to a threshold value detecting means 58. The means 58 is provided with a histogram preparing means 62 and a threshold value calculating means 64. The means 62 prepares a histogram by using the output signal of a line sensor 52 which reads the line excepting for the scanning line for black frame detection. The means 64 calculates a threshold value by using this histogram. The threshold value is used for detecting the black frame of the scanning line for black frame detection to be read later. The reading signal of the scanning line is binarized by the means 56 while using the threshold value provided by the means 58, and inputted through a white/black correcting means 65 to a black frame detecting means 66, and the black frame is detected. The white/ black of the picture element on the scanning line for black frame

detection is corrected by using peripheral picture elements. Thus, the influence of dirt or flaw on the image near an original or on the film is eliminated and the black frame can be exactly obtained.

It is respectfully requested that the examiner can consider the documents listed on the accompanying form PTO/SB/08 and that it be made of record in the application. Applicants sincerely hope that the examiner initials the cited references on the form and that a copy of the initialed form be sent to the applicants with the next communication from the examiner.

Respectfully submitted,

Winston Hsu

Date: 2007/6/6

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Note: Please leave a message in my voice mail if you need to talk to me. (The time in D.C. is 12 hours behind the Taiwan time, i.e. 9 AM in D.C. = 9 PM in Taiwan.)